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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>FCC IC SAR Exclusion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                |                                                                                                                     |  |  |  |
| 4.3.1. Standalone SAR test exclusion considerations                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |                                                                                                                     |  |  |  |
| <b>100 MHz to 6 GHz at separation distance less than or equal to 50 mm</b>                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                |                                                                                                                     |  |  |  |
| <b>SAR Test Exclusion Calculator</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                |                                                                                                                     |  |  |  |
| <b>Insert values in yellow highlighted boxes to determine SAR Exclusion</b>                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                |                                                                                                                     |  |  |  |
| Max Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.6 mW                                                         | When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. |  |  |  |
| Min Separation                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5 mm                                                           |                                                                                                                     |  |  |  |
| Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.917 GHz                                                      |                                                                                                                     |  |  |  |
| <b>Answer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>0.9 Must be less than or equal to 3.0 for SAR Exclusion</b> |                                                                                                                     |  |  |  |
| <b>KDB 628591 D01 TCB Exclusion List v14</b><br>TCBs are excluded from granting if:<br><b>General Population: The Answer is equal to or greater than 24 (8x threshold)</b><br><b>Controlled Use: The Answer is equal to or greater than 60 (20x threshold) and, when published RF exposure KDB procedures are not established for SAR testing or when SAR data is not provided to support compliance.</b>                                                                              |                                                                |                                                                                                                     |  |  |  |
| <b>Please also note the following:</b> <i>[FCC KDB quote]</i> These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface. <i>[End quote]</i> |                                                                |                                                                                                                     |  |  |  |

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**Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance<sup>4,5</sup>**

| Frequency (MHz) | Exemption Limits (mW)           |                                 |                                 |                                 |                                 |
|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                 | At separation distance of ≤5 mm | At separation distance of 10 mm | At separation distance of 15 mm | At separation distance of 20 mm | At separation distance of 25 mm |
| ≤300            | 71 mW                           | 101 mW                          | 132 mW                          | 162 mW                          | 193 mW                          |
| 450             | 52 mW                           | 70 mW                           | 88 mW                           | 106 mW                          | 123 mW                          |
| 835             | 17 mW                           | 30 mW                           | 42 mW                           | 55 mW                           | 67 mW                           |
| 1900            | 7 mW                            | 10 mW                           | 18 mW                           | 34 mW                           | 60 mW                           |
| 2450            | 4 mW                            | 7 mW                            | 15 mW                           | 30 mW                           | 52 mW                           |
| 3500            | 2 mW                            | 6 mW                            | 16 mW                           | 32 mW                           | 55 mW                           |
| 5800            | 1 mW                            | 6 mW                            | 15 mW                           | 27 mW                           | 41 mW                           |

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Revision 1

FireBoard Labs LLC  
HVIN: FBRFS23  
Test: 230818  
Test to: CFR47 15C, RSS-210, RSS-247  
File: FBRFS23 RF Exemption

FCC ID: 2A29A-FBRFS23  
IC: 27842-FBRFS23  
SN's: S432RZ64G, S6F32Z64G  
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